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October 10, 2011

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Attn: TSCA Section 8(e) Coordinator
Office of Chemical Safety and Pollution Prevention
Environmental Protection Agency
1200 Pennsylvania Avenue
Washington, DC 20460-0001

8EHQ-11-18468

Re: TSCA 8(e) Submission of Findings from a 21-day *Daphnia magna* reproduction study with the test substance, Light Catalytic Cracked Gas Oil

Dear Madam or Sir:

The American Petroleum Institute (API), on behalf of the Petroleum HPV Testing Group (Testing Group), is submitting this notice pursuant to Section 8(e) of the Toxic Substances Control Act for the substance, "Distillates (petroleum), light catalytic cracked" (CAS RN 64741-59-9). The Testing Group is an unincorporated group of petroleum substance manufacturers and importers affiliated by contractual obligation to establish and fund a voluntary data disclosure and testing program, in response to EPA's HPV Chemical Challenge Program. The Testing Group program is administered by API (membership list attached).

The Testing Group has received unaudited data from the study titled "*Daphnia magna* Reproduction Test on Water Accommodated Fractions of a Light Catalytic Cracked Gas Oil." This study was conducted in compliance with OECD Guideline 211 and EPA OPPTS 850.1300 testing guidelines and OECD C (97) 186 (Final), 1997 and EPA/TSCA 40 CFR 792, 1989 good laboratory practices.

The test substance was administered for 21 days to groups of *Daphnia magna* as water accommodated fractions under static-renewal conditions in sealed test vessels with no headspace. Survival and reproduction was monitored during the exposure period. The data have been verified but have not yet been reviewed by the testing laboratory's Quality Assurance (QA) group. The study data show a 21-d EL50 for survival and reproduction of 0.22 mg/L and 0.24 mg/L, respectively. The corresponding 21-d EC50 values were 0.17 mg/L and 0.18 mg/L, respectively.

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A summary of the findings are provided below:

	WAF Loading Rates, mg/L			Mean Measured Hydrocarbon Concentrations, mg/L[1]		
	EL50	LOELR	NOELR	EC50	LOEC	NOEC
Survival	0.22	0.34	0.18	0.17	0.246	0.138
Reproduction	0.24	0.10	0.05	0.18	0.075	0.038

EL/EC = The 50% Effect Loading (EL50) is the calculated loading rate of the test substance which results in 50% effect (i.e., survival or reproduction) in a population of test organisms over the test period. Results expressed as the 50% Effect Concentration (EC50) represent the concentration of hydrocarbons that solubilized from the test substance into each WAF at its respective loading rate.
LOELR/NOELR = The lowest and no observed effect loading rates determined in the test.
LOEC/NOEC = The lowest and no observed effect concentrations[1] determined in the test.

[1]Concentration measurements represented the concentration of hydrocarbons in mg/L that solubilized from the test substance into each WAF at its respective loading rate. The distribution and percentage of gas oil components measured in the WAFs differed from the parent gas oil owing to the differing solubilities of individual gas oil hydrocarbons. Therefore, measured concentrations do not represent all hydrocarbons constituting the test substance.

Light catalytic cracked gas oil is a Class 2 substance (UVCB) defined as "A complex combination of hydrocarbons produced by the distillation of products from a catalytic cracking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C25 and boiling in the range of approximately 150°C to 400°C (302°F to 752°F). It contains a relatively large proportion of bicyclic aromatic hydrocarbons." While there is no actual knowledge through usage patterns, or monitoring data that show the substance is present in environmental media at or near concentrations where the effects could be reasonably expected, we feel it is prudent to make EPA aware of this new data and the moderate chronic effects in daphnia that were observed.

When the final report of the study is complete it will be submitted to the EPA Office of Pollution Prevention and Toxics. If you have any questions or require further information regarding this submission please don't hesitate to contact me.

Sincerely,

Howard J. Feldman

Attachment: Petroleum HPV Testing Group Membership List

cc: Oscar Hernandez, USEPA
Diane Sheridan, USEPA
Mark Townsend, USEPA

Member Companies of the Petroleum HPV Testing Group
August 5, 2010

Alcoa Inc.
Big West Oil LLC
BP
Calcasieu Refining Company
Chevron Corporation
CHS Inc.
CITGO Asphalt Refining Company
CITGO Petroleum Corp.
Coffeyville Resources, Refining and Marketing, LLC
ConocoPhillips Company
Countrymark Refinery
Cross Oil Refining & Marketing, Inc.
Dakota Gasification Company
Delek Refining, LTD
Dynegy Liquids MKTG & Trade
Edgington Oil Company
Elkhorn Operating Company
Equilon Enterprises LLC/Motiva Enterprises LLC
Ergon Refining, Inc.
Ergon West Virginia Inc
ExxonMobil Americas Refining and Supply Company
Flint Hills Resources, LP
Formosa Hydrocarbons Co., Inc.
Giant Industries, Inc.
Hess Corporation
Holly Corp/Navajo Refining Co
Houston Refining LP
Hovensa, LLC
Hunt Refining Co.
Kern Oil & Refining Company
Lion Oil Company
Marathon Oil Company LLC
Merichem Chemicals & Refinery Serv LLC
Murphy Oil Corporation
National Cooperative Refinery Association
Neville Chemical Company
Pasadena Refining System, Inc.
PDV Midwest Refining, LLC
Placid Refining Company LLC
Safety-Kleen Oil Recovery
Sasol North America Inc.
Shell Oil Company
Sid Richardson Gasoline Co.
Silver Eagle Refining, Inc.
Sinclair Oil Corporation
South Hampton Refining Company
Sunoco Inc (R+M)
Tesoro Petroleum Corporation
The Goodyear Tire & Rubber Company
The Premcor Refining Group Inc.
Total Petrochemicals USA, Inc.
Tricor Refining, LLC
True Oil Co/88 Oil Co/Equit. Oil Purch. Co
US Oil & Refining Co.
Valero Energy Corp
Williams Energy Services
Wynnewood Refining Company

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